## Directions

## Glance 'n Go Sampling for Greenbugs in Winter Wheat

Treatment Threshold = 7 Greenbugs/Tiller



## Economic Thresholds for January - May

Prepared by Tom A. Royer and K.L. Giles, Oklahoma State University, and N.C. Elliott, USDA-ARS, Stillwater, OK.

- ► To sample the wheat field, use a "zig zag" or "W" pattern and walk at least 15 steps (about 30 ft) between stops.
- ► Carefully pull and examine 3 tillers (stems) per stop, taking one tiller from the left, right, and front.
- At each stop, color in the leaf for each tiller that has one or more greenbugs on it, and keep a running total. If the number of infested tillers is less than or equal to the number in the "Don't Treat" column then stop sampling, and do not treat. If the number of infested tillers is equal to or greater than the number in the "Treat" column then stop sampling, and treat the field. If the number falls within the numbers listed in the "Keep Sampling" column, continue sampling until a decision can be made, or the "Stop Sampling" box has been reached.
- ▶ If the "Stop Sampling" box is reached and a decision is not made:
  - ▶ Do not spray if most of the greenbugs are mummies.
  - ▶ Recheck the field in 2-4 days if no or very few mummies are present.

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Field 1

Date

Spring, Threshold = 7

Sample ▼		Stop every 30 ft. and look at 3 tillers Mark a leaf for each tiller that has 1 or more greenbugs						Keep Sampling	Treat
	Stop 1	Stop 2	Stop 3	Stop 4	Stop 5	greenbugs	Treat ▼	▼ 3	$\blacksquare$
Tillers 1-15 ▶	$\Diamond \Diamond \Diamond$	$\Diamond\Diamond\Diamond$	٥٥٥	۵۵۵	٥٥٥	<b>▶</b> /15▶	7 or less	8-14	N/A
Tillers 16-30 ▶	$\Diamond \Diamond \Diamond$	$\Diamond \Diamond \Diamond$	٥٥٥	٥٥٥	٥٥٥	► /30►	20 or less	21-29	30 or more
Tillers 31-45 ▶	٥٥٥	٥٥٥	٥٥٥	٥٥٥	٥٥٥	<b>▶</b> /45 <b>▶</b>	32 or less	33-42	43 or more
Tillers 46-60 ▶	٥٥٥	٥٥٥	۵۵۵	٥٥٥	٥٥٥	▶ /60▶	45 or less	46-55	56 or more
Tillers 61-75 ▶	$\delta \delta \delta$	$\Diamond \Diamond \Diamond$	٥٥٥	٥٥٥	٥٥٥	<b>▶</b> /75 <b>▶</b>	58 or less	59-68	69 or more
Tillers 76-90 ▶	$\Diamond \Diamond \Diamond$	$\Diamond \Diamond \Diamond$	$\Diamond \Diamond \Diamond$	$\Diamond \Diamond \Diamond$	۵۵۵	▶ /90▶	71 or less	72-80	81 or more

Field 2

Date

Spring, Threshold = 7

Sample ▼	Stop 1	Total tillers with 1 or more greenbugs  Don't Treat		Keep Sampling	Treat				
Tillers 1-15 ▶	۵۵۵	Stop 2	Stop 3	Stop 4	Stop 5	0 0	7 or less	8-14	N/A
Tillers 16-30 ▶	$\Diamond \Diamond \Diamond$	$\Diamond\Diamond\Diamond$	$\Diamond\Diamond\Diamond$	$\Diamond \Diamond \Diamond$	٥٥٥	<b>▶</b> /30 <b>▶</b>	20 or less	21-29	30 or more
Tillers 31-45 ▶	$\Diamond \Diamond \Diamond$	$\Diamond\Diamond\Diamond$	$\Diamond \Diamond \Diamond$	$\Diamond \Diamond \Diamond$	٥٥٥	<b>▶</b> /45 <b>▶</b>	32 or less	33-42	43 or more
Tillers 46-60 ▶	$\Diamond \Diamond \Diamond$	$\Diamond\Diamond\Diamond$	$\Diamond \Diamond \Diamond$	$\Diamond \Diamond \Diamond$	٥٥٥	<b>▶</b> /60 <b>▶</b>	45 or less	46-55	56 or more
Tillers 61-75 ▶	$\Diamond \Diamond \Diamond$	$\Diamond \Diamond \Diamond$	$\Diamond \Diamond \Diamond$	٥٥٥	۵۵۵	<b>▶</b> /75 <b>▶</b>	58 or less	59-68	69 or more
Tillers 76-90 ▶	٥٥٥	٥٥٥	٥٥٥	۵۵۵	۵۵۵	▶ /90▶	71 or less	72-80	81 or more

Resample in 2-4 days

Field 3		Date	S	pring, Thres	shold = 7	_		OKLA	OSU HOMA COOPERATIVE KTENSION SERVICE
Sample <b>V</b>	Cham 1	Stop eve Mark a leaf for ea	C4	Total tillers with 1 or more	Don't Treat	Keep Sampling	Treat		
	Stop 1	Stop 2	Stop 3	Stop 4	Stop 5	greenbugs		•	
Tillers 1-15 ▶	۵۵۵	٥٥٥	۵۵۵	٥٥٥	۵۵۵	▶ /15▶	7 or less	8-14	N/A
Tillers 16-30 ▶	٥٥٥	٥٥٥	٥٥٥	٥٥٥	٥٥٥	<b>▶</b> /30 <b>▶</b>	20 or less	21-29	30 or more
Tillers 31-45 ▶	٥٥٥	٥٥٥	٥٥٥	٥٥٥	٥٥٥	<b>▶</b> /45 <b>▶</b>	32 or less	33-42	43 or more
Tillers 46-60 ▶	٥٥٥	000	٥٥٥	٥٥٥	٥٥٥	▶ /60▶	45 or less	46-55	56 or more
Tillers 61-75 ▶	٥٥٥	٥٥٥	۵۵۵	$\Diamond \Diamond \Diamond$	۵۵۵	<b>▶</b> /75 <b>▶</b>	58 or less	59-68	69 or more
Tillers 76-90 ▶	۵۵۵	۵۵۵	۵۵۵	٥٥٥	۵۵۵	▶ /90 ▶	71 or less	72-80	81 or more
		Stop Samplin	g Resamp	le in 2-4 days					

Sample ▼			ry 30 ft. and look at ch tiller that has 1 o			Total tillers with Don't Ke				
	Stop 1	Stop 2	Stop 3	Stop 4	Stop 5	greenbugs	▼	▼	$\blacksquare$	
Tillers 1-15 ▶	$\Diamond \Diamond \Diamond$	$\Diamond \Diamond \Diamond$	$\Diamond \Diamond \Diamond$	٥٥٥	٥٥٥	<b>▶</b> /15 <b>▶</b>	7 or less	8-14	N/A	
Tillers 16-30 ▶	$\Diamond \Diamond \Diamond$	٥٥٥	$\Diamond \Diamond \Diamond$	٥٥٥	٥٥٥	▶ /30▶	20 or less	21-29	30 or more	
Tillers 31-45 ▶	٥٥٥	٥٥٥	٥٥٥	۵۵۵	۵۵۵	<b>▶</b> /45 <b>▶</b>	32 or less	33-42	43 or more	
Tillers 46-60 ▶	٥٥٥	٥٥٥	۵۵۵	۵۵۵	۵۵۵	▶ /60▶	45 or less	46-55	56 or more	
Tillers 61-75 ▶	$\Diamond \Diamond \Diamond$	$\Diamond \Diamond \Diamond$	$\Diamond \Diamond \Diamond$	٥٥٥	٥٥٥	<b>▶</b> /75 <b>▶</b>	58 or less	59-68	69 or more	
Tillers 76-90 ▶	$\Diamond \Diamond \Diamond$	$\Diamond \Diamond \Diamond$	$\delta \delta \delta$	000	۵۵۵	▶ /90▶	71 or less	72-80	81 or more	

Field 5 Date Spring, Threshold = 7

Sample ▼		Stop eve Mark a leaf for ea	Total tillers with 1 or more	Don't Keep Treat Samplir		Treat			
	Stop 1	Stop 2	Stop 3	Stop 4	Stop 5	greenbugs	▼	▼ -	lacktriangle
Tillers 1-15 ▶	٥٥٥	$\Diamond\Diamond\Diamond$	٥٥٥	٥٥٥	٥٥٥	<b>▶</b> /15▶	7 or less	8-14	N/A
Tillers 16-30 ▶	٥٥٥	$\Diamond \Diamond \Diamond$	٥٥٥	٥٥٥	٥٥٥	<b>▶</b> /30 <b>▶</b>	20 or less	21-29	30 or more
Tillers 31-45 ▶	٥٥٥	$\Diamond \Diamond \Diamond$	٥٥٥	٥٥٥	٥٥٥	<b>▶</b> /45 <b>▶</b>	32 or less	33-42	43 or more
Tillers 46-60 ▶	٥٥٥	$\Diamond \Diamond \Diamond$	٥٥٥	٥٥٥	٥٥٥	<b>▶</b> /60 <b>▶</b>	45 or less	46-55	56 or more
Tillers 61-75 ▶	۵۵۵	$\Diamond \Diamond \Diamond$	٥٥٥	٥٥٥	٥٥٥	<b>▶</b> /75 <b>▶</b>	58 or less	59-68	69 or more
Tillers 76-90 ▶	$\Diamond \Diamond \Diamond$	$\Diamond\Diamond\Diamond$	$\Diamond \Diamond \Diamond$	$\Diamond \Diamond \Diamond$	۵۵۵	▶ /90▶	71 or less	72-80	81 or more